

PHASE I BOOK EXPLOITATION

POL/5733

Polskie Towarzystwo Matematyczne

Prace matematyczne (Mathematical Transactions) Warsaw, Państwowe Wydawn.
Naukowe, 1961. 146 p. (Series: Its: Roczniki. Seria I., [no] 5)
1,150 copies printed.

Editorial Board: Chief Ed.: Władysław Orlicz; Deputy Chief Ed.: Marceli
Stark, Adam Bielecki, Witold Bogdanowicz, Stanisław Gołąb, Jerzy Górski,
Stanisław Hartman; Secretary: Julian Musielak, Zbigniew Semadeni,
Krzysztof Tatarkiewicz.

PURPOSE: This book is intended for mathematicians.

COVERAGE: This is a collection of 14 articles on the theory of functions, theory
of numbers, theory of series, functional analysis, differential equations, and
their applications to hydrodynamics and thermodynamics. No personalities are
mentioned. References follow each article.

Card 1/4

Mathematical Transactions

POL/5733

TABLE OF CONTENTS:

Jędryka, T. M. On a Certain Boundary Problem for the [Heat]
Conductivity Equation

Krzywicki, A. On Using Weyl's Method in the Boundary Problem
of Linearized Hydrodynamics Equations

Wojtas, M. On a Certain Property of Symmetric Determinants of
Diagonal Type

Taberski, R. On the Convergence of Singular Integrals at Lebesgue-
Orlicz Points of Some Functions

Kopec, J. On Quasi-Analytic Classes of Vector Functions

Stas', W. On a Certain Estimation of the Remainder of a Theorem

Albrycht, J. Some Remarks on Marcinkiewicz-Orlicz Space (IV)

Mioduszewski, J. On the Continuous Selection of Multivalued Functions
on Dendrites

Card 2/4

Mathematical Transactions

POL/5733

Mioduszeński, J. On k-to-One Continuous Function on the Closed Interval and the Straight Line	79
Rotkiewicz, A. On Numbers of the $\frac{4k+1}{4k} - 1, \frac{4k+3}{4k+4} + 1$	95
Zamorski, J. Estimating Coefficients of Functions Belonging to Two Classes of k-Symmetric Schlicht Functions	101
Ci Guan Fu [Ch'i Kuan-fu]. On the Absolute Convergence of Multiple Walsh and Fourier Series	107
Józefiak, T. On a Hypothesis of L. Jesmanowicz Concerning Pythagorean Numbers	119
Semadeni, Z. Generalization of Helly's Theorem Concerning the Solvability of Moment Problems in Banach Spaces	125

Card 3/4

Mathematical Transactions

POL/5733

Reports from Scientific Meetings of the Polish Mathematical Society

15

AVAILABLE: Library of Congress

Card 4/4

AC/rn/mas
11-6-61

FABERSON, M. (Poznan)

On the convergence of singular integrals at Lebesgue-Orlicz points of some functions. Roczniki matematyczne 5:33-42 '61.

S/011/62/GCC/004/012/099
0111/0444

AUTHOR: Taborski, R.

TITLE: Summability with Korovkin's factors

PERIODICAL: Matematychny Zhurnal, Matematika, no. 4, 1962, 14,
abstract 4574. ("Bull. Acad. polon. sci. Sér. sci. math.,
astron. et phys.", 1961, 2, no. 5, 365-388)

TEXT: Considered is the (K)-method for the summation of series
with the factor matrix

$$s_k^{(n)} = \frac{1}{2(n+2)} \left[(n-k+3) \sin \frac{(k+1)\pi}{n+2} - \right.$$

$$\left. - (n-k+1) \sin \frac{(k-1)\pi}{n+2} \right] \operatorname{cosec} \frac{\pi}{n+2},$$

$$n = 1, 2, 3, \dots, k = 1, 2, \dots, n.$$

It is proved that the (K)-method is stronger than the (C, 1)-method.

Card 1/2

Summability with Korovkin's factors

3/044/62/000/004/012/099
0111/0444

From this fact there result conclusions on the pointwise (K)-summability of the Fourier-series and the conjugated series.

[Abstractor's note: Complete translation.]

✓
/

Card 2/2

TABERSKI, R.

On classes \mathcal{A}_M^a and \mathcal{A}_M^b of 2π -periodic functions. Bul Ac Pol Mat 9
no.6:441-444 '61.

TABERSKI, R.

Some properties of (K, φ) -summability. Bul Ac Pol Mat 9 no.9:659-666 '61.

1. Department of Mathematics, A. Mickiewicz University, Poznan.
Presented by W.Orlicz.

TABERSKI, R. (Poznan)

Singular integrals depending on two parameters. Roczniki matematyczne
no. 7: 173-179 '62.

TABERSKI, R.

Approximation to conjugate function. Bul Ac Pol mat 10
no.5:255-260 '62.

1. Katedra Matematyki Uniwersytet im. A. Mickiewicza, Poznan.
Presented by W.Orlicz.

TABERSKI, R.

Asymptotic formulae for Cesaro singular integrals. Bul Ac Pol
mat 10 no.12:637-640 '62.

1. Department of Mathematics, A.Mickiewicz University, Poznan.
Presented by W. Orlicz.

TABERSKI, R. (Poznan)

Some theorems on double integrals over rectangles. Annales Polonici
mathem 11 no.3:209-216 '62.

TABERSKI, R.

Remarks on singular integrals. Bul Ac Pol mat 11 no. 9:
577-582 '63.

1. Department of Mathematics, A. Mickiewicz University,
Poznan. Presented by W. Orlicz.

LABEJSKI, R.

On the summability of Fourier and Bessel series of Holder functions. Bul Ac Pol mat 11 no. 10:643-647 '63.

1. Department of Mathematics, A. Mickiewicz University, Poznan. Presented by W. Orlicz.

TABERSKI, R. (Poznan)

On double integrals and Fourier series. Annales Pol math
40 no. 1:97-115 '64.

Tablinski, A.

Some properties of Fourier Bessel series. *Math. USSR Izv.*
Math. 12 no. 7-8 1968 164.

1. Department of Mathematics of the U. Michigan, Ann Arbor, Mich.
Presented by A. Glick.

TAD RSK1, R.

Theorems of Hardy and Littlewood type. Bull Ac Pol math 12 no.11:
699-702 '64.

1. Department of Mathematics I of A. Mickiewicz University,
Poznan. Submitted September 8, 1964.

TABLE 1.

TABLE 7. Contribution to a discussion on planning and control of the fulfillment of plans in research and development work, p. 272.

Vol. 4, No. 5, June 1956
ZA SOCIALISMU VEDU A TECHNICKOU
TRNOV
Praha, Czechoslovakia

So: East Europe Accessions, Vol. 5, No. 5, May 1956

TABERYOVA, Ludmila

A case of mucocutaneous ocular syndrome. Cesk. oftal. 18 no.1:
37-40 Ja '62.

1. Očni oddeleni MUNZ - Ostrava, prednosta MUDr. Rubacek.
(BEHCET'S SYNDROME case report)

L 27691-66 EWT(d)/EWP(1) IJP(c) GG/BB

ACC NR: AP6012701

SOURCE CODE: UR/0119/66/000/004/0011/0013

AUTHOR: Tabeyev, A. S. (Engineer)

ORG: none

TITLE: Some types of memory circuits with magnetic logical elements

SOURCE: Priborostroyeniye, no. 4, 1966, 11-13

TOPIC TAGS: logical element, magnetic core storage

ABSTRACT: Sequential functions used in designing multicycle automatic control systems are considered. The sequential function is regarded as comprising a combination function and a memory function. A table of 21 memory functions and their algebraic formulas is presented. All these functions are based on six principal functions (realized by Soviet-made two-step magnetic elements ELM): AND, OR, exclusive OR, NOT, STROKE, and Implication. Each memory circuit is constructed by connecting in series two of the above principal elements so that the resulting combination has at least one turn-on and one turn-off signal. Orig. art. has: 2 figures and 1 table.

SUB CODE: 09 / SUM DATE: none / ORIG REF: 005

Card 1/1 CC

UDC: 681.142.652.9

TABEYEV, F.A.

~~Uch.zap.Kaz.un.~~
Economic law of distribution according to labor. Uch.zap.Kaz.un.
116 no.1:251-255 '55. (MLRA 10:5)

1.Kafedra politekonomii.
(Wages) (Russia--Economic Policy)

TABEYEV, F.

Party organizations of Tataria in the struggle to improve the level
of economic work in industry Sots. trud 7 no.12:11-17 D '62.

(MIRA 16:2)

1. Pervyy sekretar' Tatarskogo oblastnogo komiteta Kommunisticheskoy
partii Sovetskogo Soyuza.

(Tatar A.S.S.R.—Communist party of the Soveit Union—Party work)
(Tatar A.S.S.R.—Industrial management)

BOPEL, A.ZH.; TABEYEVA, D.M.

Diagnosis of Strümpell's spastic paraplegia. Zhur. nevr. i psikh.
o5 no.8:1164-1168 '65. (MIRA 16:8)

1. Kafedra nervnykh bolezney (zaveduyushchiy - prof. I.I. Rusetskiy
[licenziat]) Karanskogo instituta usovershenstvovaniya vrachey.

LA 194, I., and others.

Contributions to the study of the efficiency of some types of mineral fertilizers. p. 101.

REVISTA DE CHIMIE. Bucuresti, Romania. Vol. 10, no. 5, May 1959.

Monthly List of East European Accessions. (EEAI), LC. Vol. 5, no. 9, ^{Sept.} 1959.
Encl.

TABIROV, G.A.; KOK, Ye.P.; SORKINA, E.G.

Functional disorders of the temporal lobe in parasagittal
arachnoid endotheliomas. Vop. neirokhir. 28 no.2:37-40
Mr-Apr '64. (MIRA 12:2)

I. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni
institut neyrokhirurgii imeni N.N. Burdenko (direktor - prof.
B.G. Yegorov) AMN SSSR, Moskva.

ACCESSION NR: AR4027670

S/0276/64/000/001/B071/B071

SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 1B378

AUTHOR: Napetvaridze, P. G.; Tabidze, A. I.; Surmava, G. G.

TITLE: Effect of nitrogen on the properties of welded seams in 18-8 austenitic steel

CITED SOURCE: Tr. In-ta metallurgii. AN GruzSSR, v. 13, 1962 (1963), 239-245

TOPIC TAGS: welded seam, welding, steel welding, austenitic steel, austenitic steel welding.

TRANSLATION: Studies were made of 1Kh18N9T steel samples 4; 5 and 6 mm in thickness with the following chemical composition (%): 0.09 C; 0.5 Si; 0.9 Mn; 17.37 Cu; 10.8 Ni; 0.78 Ti; 0.03 P; 0.025 S. The nitrogen was introduced into the welding bath in the form of nitrided manganese. The result of the study was a new austenitic-ferrite powder wire with a 0.5% nitrogen content. It is reported that in the welding of 1Kh18N9T with this wire, the nitrogen refines the seam structure and improves the stability of seams against hot cracking.

Card 1/2

ACCESSION NR: AR4027670

5 illustrations. Bibliography with 5 titles. T. Kislyakova.

DATE ACQ: 03Mar64

SUB CODE: ML

ENCL: 00

Card 2/2

AUTHOR: Tabidze, A. I.; Pinchuk, N. I.; Us, V. I.; Yushkevich, Z. V.

ORG: none

TITLE: Stress corrosion cracking resistance of austenite chromium-manganese steels and alloys in chloride solutions

SOURCE: Avtomaticheskaya svarka, no. 5, 1966, 76-77

TOPIC TAGS: low nickel steel, stainless steel, chromium steel, manganese steel, corrosion resistance, chloride / Kh14G30 steel, 1Kh18NiOT austenitic steel

ABSTRACT: Austenitic stainless steels of the 18-8 type are prone to stress corrosion cracking in chloride-containing solutions whereas high-Ni alloys (containing >40-45% Ni) resist corrosion of this kind. In this connection it was of interest to investigate the corrosion resistance of these alloys in chloride solutions on partial replacement of Ni with Mn. Accordingly, the authors investigated alloys of the Kh14G30 types containing from 1 to 23% Ni, which, to enhance their resistance to general corrosion, were additionally alloyed with 2.5-3.35% Mo, 0.23-0.3% Ti, 0.25-0.38% Al and 0.23-0.4% B. Various stressed specimens of these steels were tested for stress corrosion cracking in boiling (+154°C) 42% MgCl₂ solution, on first undergoing heat treatment (1100°C for 1 hr, cooling in air). Specimens of 1Kh18NiOT austenitic

Card 1/2

UDC: 621.791:620.193:669.15-194

ACC NR: AP6015254

steel were also investigated for purposes of comparison. Findings: the stress corrosion cracking of 1Kh18N10T steel in the $MgCl_2$ solution sets in within the first 24 hr, and the same happens for specimens of Kh14G30 steel containing 8-23% Ni. On the other hand, specimens of Kh14G30 steel containing <8% Ni take more time to corrode; for specimens containing 3.68% Ni the time to corrosion is 143-169 hr, and for specimens with <2% Ni, more than 400 hr (Fig. 1).

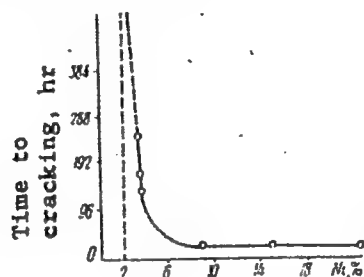


Fig. 1. Effect of Ni on corrosion resistance of Kh14G30-type austenitic Cr-Mn alloys in boiling 42% solution of $MgCl_2$

Thus, the replacement of Ni with Mn further contributes to enhancing the resistance of austenitic steels to stress corrosion cracking. Orig. art. has: 4 figures, 1 table.

SUB CODE: 13, 11/ SUIM DATE: none/ ORIG REF: 003/

Card 2/2

KVAVADZE, D.K.; CHIKOVANI, Dzh.S.; TABIDZE, E.A.

Oblique incidence of electromagnetic waves on a periodical wire
grid. Trudy Inst. geofiz. AN Gruz. SSR 19:27-37 '60. (MIRA 14:9)
(Electromagnetic waves)

1. The following information was obtained from a source in the
CIA, who has provided reliable information in the past.

2. The source has provided information that is reliable and
accurate.

3. The source has provided information that is reliable and
accurate.

TUMANISHVILI, G.D.; TABIDZE, D.D.

Dynamics of growth of the liver in a chicken embryo ~~when~~ stimulated
by homologous tissue extract. Dokl. AN SSSR 146 no.1:246-249
S '62. (MIRA 15:9)

1. Institut fiziki AN Gruzinskoy SSR. Predstavleno akademikom
I.S. Beritashvili.

(Embryology—Birds) (Tissue extracts)

TAPIDZE, D.D.

Phenomena of the gravity denudation during the Ptysh earthquake
July 16, 1963. Soob. AN Gruz. SSR 34 no.2:367-373 My '64.
(MIRA 18:2)

TABIDZE, Dmitriy Ivanovich

(Inst of Viticulture and Viniculture of the Acad Sci GSSR) -
Academic degree of Doctor of Agricultural Sciences, based on his
defense, 30 May 1955, in the Council of Moscow Order of Lenin
Agricultural Acad imeni Timiryazev, of his dissertation entitled:
"The Spread of Commercial Grape Cultivation in new Mountain Regions
of the Georgian SSR."

Academic degree and/or title: Doctor of Sciences

30: Decisions of VAK, List no. 1, 7 Jan 56, Byulleten' MVO SSSR, Uncl.
JPRS/NY-548

1. TABIDZE, D. I.
2. USSR (600)
4. Viticulture - Georgia
7. Preliminary data on testing valuable Georgian grape varieties in new districts
/in Georgian with Russian summary/. Trudy Inst. vin. AN Gruz. SSR 7, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

.....

"Progress in Commercial Growing of Grapes in the New Mountain Regions of the Georgian SSR," Dr Agr Sci, Moscow Order of Lenin Agricultural Academy K. A. Timiryazev, Moscow, 1955. (HL, No 16, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

FROLOV-BAGREYEV, A.M., professor, otvetstvennyy redaktor; NEGRUL', A.M., professor, zamestitel' otvetstvennogo redaktora; BLAGONRAVOV, P.P., kandidat sel'skokhozyaystvennykh nauk, zamestitel' otvetstvennogo redaktora; GERASIMOV, M.A., professor, redaktor; YEGOROV, V.I., redaktor; KARTAVCHENKO, P.K., kandidat sel'skokhozyaystvennykh nauk, redaktor; KATAR'YAN, T.G., kandidat biologicheskikh nauk, redaktor; POTAPENKO, Ya.I., kandidat sel'skokhozyaystvennykh nauk, redaktor; PROSTOSERDOV, N.N. professor, redaktor; TABIDZE, D.I., doktor sel'skokhozyaystvennykh nauk, redaktor; KHARITONOV, A.P., redaktor; KRUGLOVA, G.I., redaktor; KISINA, Ye.I., tekhnicheskiiy redaktor.

[. Ampelography of the U.S.S.R.] Ampelografiia SSSR. Red.kollegiia; A.M.Frolov-Bagreyev i dr. Moskva, Gos.nauchno-tekhn.izd-vo M-va promyshl.prodovol'stvennykh tovarov SSSR. Vol.6. 1956. 432 p. (MLRA 10:6)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vinodeliya i vinogradarstva "Magarach."
(Grapes--Varieties)

TABIDZE, Dmitriy Ivanovich; NEGRUL', A.M., prof., otvetstvennyy red.;
FORTUNATOV, I.K., red.; KASHINA, P.S., tekhn.red.

[Introducing the growing of grapes for commercial purposes into new
mountain districts of the Georgian S.S.R.] Prodvizhenie promyshlennoi
kul'tury vinograda v novye gornye raiony Gruzinskoi SSR. Moskva,
Izd-vo Akad.nauk SSSR, 1957. 309 p. (MIRA 11:1)
(Georgia--Viticulture)

M-6

USSR/Cultivated Plants - Fruits. Berries.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30073

Author : Tabidze, D.I.

Inst :

Title : The Vertical Viticultural Zones of the Georgian SSR.

Orig pub : Vinodeliye i vinogradarstvo SSSR, 1957, No 2, 24-27.

Abstract : The subdivision of the territory of the Georgian SSR for viticulture into vertical zones was done for the purposes of the correct placement of varieties, the specialization of rayons according to the kinds of use and processing of the grape and the development of zonal agrotechny. Vertical zones were set up from sea level to an altitude of 1500 m. with intervals of 300 m.: 0-300 m. is the lowland to hilly zone, 301-600 m. the foothill to elevation, 601-900 m. the low mountainous, 901-1200 m. the medium mountainous, and 1200-1500 m. is the high mountainous zone. The ecological, climatic conditions are characterized as

Card 1/2

- 38 -

USSR/Cultivated Plants - Fruits. Berries.

M-6

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30073

is the existing assortment of grapes according to the zones. Recommendations are given to improve the assortments, and agrotechny is considered for the zonal divisions.

Card 2/2

001 11 11

26-58-1-16/48

AUTHOR: Fortunatov, I.K., Candidate of Biological Sciences (Moscow)

TITLE: **Viticulture in the Mountains** (Vinograd **podnimayetsa v**
gory)

PERIODICAL: Priroda, 1958, Nr 7, p 123 (USSR)

ABSTRACT: This is a very favorable criticism of the book "Prodvizheniye promyshlennoy kul'tury vinograda v novoyye gornyye rayony Gruzinskoy SSR" (The Progress of the Commercial Culture of the Grape in the New Mountain **Regions** of the Georgian SSR) by D.I. Tabidze published by the Publishing House of the AS USSR, 1957, 307 pp. After a survey of viticulture in the USSR and other countries, the author turns to relevant conditions, achievements and prospects in Soviet Georgia. Some of the described experimental vineyards are situated at a height of 1,200 m above sea level. In addition to much detail, especially suitable grape types and their chemical properties are recommended.

1. Grapes--USSR

Card 1/12

WILKINSON, G. A.; LAMIDZE, T. D.; TABIDZE, F. N.

Significance of some methods of research on the peripheral vessels
in the diagnosis of endarterites. Sov. AN Grup. SSR 35 no.3:733-736
S. 734. (MIRA 17:11)

L 32433-65 EWT(d)/TDB(jj)/EXT/EED-2/EWP(1) Po-4/Pq-4/Pg-4/Pk-4 IJ(4)
BB/GG

ACCESSION NR: AP5000874

S/0315/64/000/002/0039/0043

AUTHOR: Tabidze, G. S.

TITLE: Problems in defining the names of objects

SOURCE: Nauchno-tehnicheskaya informatsiya, no. 2, 1964, 39-43

TOPIC TAGS: syntactic analysis, semantic analysis, machine translation, linguistics, syntactic algorithm, automatic dictionary

ABSTRACT: The author is concerned with finding methods for overcoming the difficulties which are encountered in the machine selection of definitive words in the translation process. He points out that at present the identical semantic coding of similar words is not possible because the range of all possible meanings for words which the machine can select includes such definitions as those which describe some property of an object, or the object when it is in a situation other than the existing one. The author starts out by setting up a symbolic system for analyzing the syntactic contents of sentences. Thus, he designates the main or principal object of a sentence as O_g , and the secondary object as O ; words which express action are designated as D_g . Secondary objects are of two types:

Card 1/3

L 32433-65

ACCESSION NR: AP5000874

0

(1) those which describe various characteristics of objects, and (2), whose which indicate action in an adverbial sense. The secondary words; or objects, are further subdivided into three groups: (1) Names of objects, both main and secondary (O_g and O); (2) Words determining action (D_g); and, (3) Descriptive words (X). The author explains that in order to decide which words in a sentence should be given any of the above designations. The text must first be analyzed syntactically and semantically. Such an analysis, according to the author, permits assigning a designation to words that are general. In this respect, the author refers to the work of I. A. Melchuk. He then proposes the idea of a two-part machine dictionary, the first part containing special words, and designated as "stable". The second part of this proposed dictionary is termed "unstable" because the role of any given word in it can change. This part of the dictionary is a collection of objects comprising place names, and alternatives with respect to semantic meaning. The author points out that these dictionary words usually express some characteristic action or property of an object, but that they can also mean the object itself, and for this reason can be in either of the two parts of the dictionary. The author also discusses the function of

Card 2/3

L 32433-65

ACCESSION NR: AP5000874

operators in an algorithm and proposes a symbolic system for dealing with the operators POD, ISK, ISK₂, PROV, PROV₂ and ZAP. The article concludes with general directions for the formulation of an algorithm for the syntactic analysis of the text. Orig. art. has: 2 tables.

ASSOCIATION: None

SUBMITTED: 10Jul63

ENCL: 00

SUB CODE: IP

NO REF SOV: 008

OTHER: 000

Card 3/3

L 22456-65 BXT/EED-2/EWT(d)/EWP(1) Pg-4/Pk-4/Po-4/Pq-4 IJP(c) GG/BB
ACCESSION NR: AP5000886 S/0315/64/000/008/0047/0050

AUTHOR: Tabidze, G.S.

TITLE: Machine realization of an algorithm for detecting names of objects in a text B

SOURCE: Nauchno-tekhnicheskaya informatsiya, no. 8, 1964, 47-50

TOPIC TAGS: applied linguistics, syntactic analysis, automatic information processing,
machine translation 16C

ABSTRACT: The problem of detecting and separating the names of objects in a text consists of locating (by means of phrase verification) the names of objects described by the given text and obtaining a list of these names. Objects in the text may be designated by: a. proper names, b. pronouns and c. predicates which take on nominal significance in the context. The problem is solved in two stages: 1. separation of object names a. and b. by comparing each word of the sentence being processed with words on a special list stored in a computer memory; 2. separation of type-b object names using a recognition-descriptive form of sentence and special criteria. The Ural-4 computer was used in the solution of this problem. Orig. art. has: 11 tables and 2 figures.

Card 1/2

L 22456-65

ACCESSION NR: AP5000886

ASSOCIATION: none

SUBMITTED: 04Jan64

NO REF SOV: 003

ENCL: 00

SUB CODE: DP

OTHER: 000

Card 2/2

1987, N.I.

Effect of dense corn and soybean planting on the yield and
fodder value of silage. Soob. AN Gruz. SSR 40 no.2:429-436
1965. (MIRA 19:1)

TABIDZE, O. I.

TABIDZE, O. I.: "The problem of the interrelationship among perceptions in psychology." Published by the Acad Sci Georgian SSR, Acad Sci Georgian SSR. Inst of Psychology imeni D. N. Uznadze, Tbilisi, 1956. (Dissertation for the Degree of Candidate in Pedagogical Sciences).

Source: Knizhnaya letopis' No. 28 1956 Moscow

TABIDZE, O.I.

Transcaucasian Psychological Conference. Vop. psikhol. 5 no.3:186-188
My-Je '59. (MIRA 12:9)

(Psychology--Congresses)

TABIDZE, O. I.

System of the psychological views of I.R. Tarkhnishvili. Trudy
Inst. psikhol. AN Gruz. SSR 12:3-22 '60. (MIRA 13:11)
(Tarkhanov, Ivan Romanovich, 1846-1908)

CHKHARTISHVILI, Sh.N.; TABIDZE, O.I.

Integrated nature of set. Eksp.issl.po psikhol.ust. 2:215-218
'63. (MIRA 10:12)

*

TABIDZE Sh.A.

*The mechanism of the action of intrathecal streptomycin in tuberculous meningitis
(Russian text) SOVETSK. MED. 1953, 8 (30-31)

Experience gained on 20 patients shows that this treatment causes 27.5% of cases sleep and 10% drowsiness. This reaction is more marked on cisternal than on intrathecal administration and absent on i.m. injection. It begins 2-20 min. after the injection and lasts generally from 2-4 hr. In 16 cases it was proved that the sleep was caused by streptomycin and not by the puncture, evacuation of CSF, normal saline or distilled water. It can become a conditioned reflex as demonstrated in one patient who used to fall asleep after streptomycin but did the same after an injection of distilled water. This sleep induced by the intrathecal treatment is considered beneficial.

Najman - Rijeka (XX,8,7 15)

SO: Excerpta Medica
Section VIII
Vol 7 No. 11

TABIDZE, Sh.A.

Treating cirrhotic tuberculosis of the lungs in Teberda. Vop.kur.,
fizioter. i lech.fiz.kul't. 22 no.3:72-73 My-Je '57. (MIRA 11:1)

1. Iz sanatoriyev No.1 (glavnyy vrach I.P.Gambashidze) i No.4
(glavnyy vrach Sh.A.Tabidze), nauchnyy rukovoditel' - prof. G.V.
Mestiashvili.

(TEBERDA--CLIMATOLOGY, MEDICAL) (TUBERCULOSIS)

TABIDZE, Sh.A.

Fibrous body in the pleural cavity following artificial pneumothorax.
Vest.rent. 1 rad. 33 no.2:76 Mr-Ap '58. (MIRA 11:6)

1. Iz senatoriya No.4 (glavnyy vrach Sh.A.Tabidze) Kurortnogo
upravleniya Teberdy.
(PNEUMOTHORAX)

TABIDZE, Sh.A.

Treatment of pulmonary tuberculosis in aged patients in the high mountains of Teberda. [with summary in French]. Probl.tub. 36 no.4:75-79 '58 (MIRA 11:7)

1. Iz sanatoriya No.4 Upravleniya kurorta Teberda (glavnyy vrach kurorta G.N. TSitselashvili, konsul'tant - prof. G.V. Mastiashvili). (TUBERCULOSIS, PULMONARY, in aged ther. in high altitude sanatoria (Rus))
(ALTITUDE, ther use.
high altitude sanatoria in ther. of pulm. tuberc. in aged (Rus))

GAMBASHIDZE, O.P.; TABIDZE, Sh.A.

Management of artificial pneumothorax at the high altitude
of Teberda. Probl.tub. 36 no.7:113-115 '58. (MIRA 12:8)

1. Iz sanatoriya No.1 (glavnyy vrach O.P.Gambashidze) i
sanatoriya No.4 (glavnyy vrach Sh.A.Tabidze) Upravleniya
kurorta Teberda.

(TEBERDA--PNEUMOTHORAX)

1. Kh. A., kand. med. nauk; CHIKHIDZE, I.A., kand. med. nauk

Causes of the development of far-advanced and irreversible forms of pulmonary tuberculosis. Izv. tub. no 7:21-23 '63.

(MIRA 18:1)

1. Iz kafedry tuberkuleza (zav. - zaslužennyy deyatel' nauki prof. G.V. Nestiashvili) Tbilisskogo gosudarstvennogo instituta usovershenstvovaniya vrachey i 1-y klinicheskoy tuberkuleznoy bol'nitsy (glavnyy vrach A.E. Beseliya), Tbilisi.

TABIDZE, Sh.A., kand.med.nauk

Causes of the development of a recurrence in pulmonary tuberculosis.
Probl. tub. 42 no.12:36-39 '64.

(MIRA 18:8)

1. Kafedra tuberkuleza (rav. - prof. G.V.Mestiashvili) Tbilisskogo
instituta usovershensivovaniya vrachey i 1-ya klinicheskaya
protivotuberkuleznaya bol'nitsa (glavnyy vrach A.Ye.Beseliya)
Tbilisi.

5/191/63/000/003/010/022
B101/B186

AUTHOR: Tabidze, Z. S., Yakhontova, L. F., Bruns, B. P., Saldadze, K. M.

TITLE: Effect of ionic strength of electrolyte solution on the properties of carboxyl cationites

PERIODICAL: Plsticheskiye massy, no. 3, 1963, 33 - 36

TEXT: This is a study on the behavior of the KE-2 (KB-2) cationite, a saponification product of the copolymer of acrylic ester and 0.5% divinyl benzene, and of the KE-4 (KB-4) cationite, a saponification product of the copolymer of acrylic ester and 5% divinyl benzene, during potentiometric titration. It is based on papers by A. Katchalskiy (J. Polymer Sci., no.4, 593 (1951)). The cationites in Na-H form were put into a solution of neutral 0.01 - 2 N Na_2SO_4 salt at 20°C, until pH was constant. Then the dependence of the degree α_R of neutralization on pH_1 of the external solution was determined. The apparent dissociation constant $\text{p}\bar{K}$ was determined from equations by H. P. Gregor (J. Am. Chem. Soc., 70, 1293 (1948)), and pH_1 was found to depend linearly on $\log (1-\alpha_R)/\alpha_R$, and $\text{p}\bar{K}$ on $\log \mu$ (μ = ionic strength).

Effect of ionic strength of ...

S/191/63/000/003/010/022

B101/B186

strength of external solution). The following empirical equations are derived: $\log[(1 - \alpha_R)/\alpha_R] = 0.78 (4.96 + 0.435 \log \mu - pH_1)$ for KB-2, and $\log[(1 - \alpha_R)/\alpha_R] = 0.74 (6.2 + 0.585 \log \mu - pH_1)$ for KB-4. In weakly cross-linked KB-2, the degree of swelling of the ionite increased 5-fold as neutralization increased, whereas strongly cross-linked KB-4 swelled but slightly. The behavior of the ionites on contacting electrolyte solutions has to be taken into consideration during the sorption of large organic ions. There are 6 figures and 1 table.

Card 2/2

PHASE I BOOK EXPLOITATION

SCV/4178

Akademiya nauk Ukrayins'koyi RSR. Instytut budivel'noyi mekhaniky

Zadachi termoprzhnosti v energomashvobuduvanni (Problems of Thermoelasticity in Power-Machinery Construction) Kyiv, 1960. 176 p. 1,000 copies printed.

Ed. of Publishing House: T.K. Remennik; Resp. Ed.: H.M. Savin, Academician, Academy of Sciences UkrSSR; Tech. Ed.: O.M. Lysovets'.

PURPOSE: This book is intended for turbine designers.

COVERAGE: This book is a collection of 8 Ukrainian articles based on work under the general supervision of A.D. Kovalenko. Each article has a short summary in Russian. The object of the study is to test turbine elements for stress conditions, especially those due to nonuniform heating. References accompany each article.

TABLE OF CONTENTS:

3

Foreword

Card 1/3

Problems of Thermoelasticity (Cont.)

SOV/4178

- Kovalenko, A.D. Three-Dimensional Bending of a Circular Plate of Variable Thickness in an Axially Symmetrical Temperature Field 5
The author investigates a thin solid plate with a circular cross section and a profile of thickness which varies symmetrically with respect to the center
- Il'yin, L.O. The State of Stress of a Thin Conical Shell in an Axially Symmetrical Temperature Field 28
- Shevchenko, Yu.M. The State of Stress of a Circular Symmetrically Loaded Elastic Cylinder With a Varying Modulus of Elasticity 57
- Tabieva, G. A. Two-Dimensional Strain of a Cylinder With Axially Symmetrical Nonhomogeneous Characteristics Resulting From Nonuniform Heating 94
- Motovylovets', I.O. Nonstationary Thermal Conductivity in a Cylinder of Finite Length 101

Card 2/3

10/4/60

5 - Inspection

~~SECRET~~ A

206-S. Ultrasonic Flaw Detection.
In Polish. J. Tabla. Prace Glownego
Instytutu Metalurgii, v. 3, No. 6, 1951.
p. 517-526.
Various methods used in ultra-
sonic production testing, and princi-
ples of operation and of technique.
Graphs, diagrams, and micrographs.
(S13)

Journal of the Iron and Steel
Institute
Vol. 176 Part 3
Nov. 1954
Properties and Tests

① met
Progress in the Use of Ultrasonics in the Detection of Defects.
J. Fabian, *(Warsaw, Poland)*, 1953, 20, (6), 278-285, 11p.
Polish. Physical bases for the application of ultrasonics in
detecting flaws in materials are outlined. Ultrasonic methods
used in the detection of defects in metallic objects and trends
in their further development are surveyed. — T. G.

J-4

POLAND/Acoustics - Ultrasonics

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6579

Author : Tabin Jozef
Inst : Institute of Iron Technology
Title : Shortening Insensitivity Time in an Ultrasonic Single Probe -
Head Flaw Detector.

Orig Pub : Proc. II conf. ultrason., 1956, Warszawa, FWN, 1957, 233-235

Abstract : The insensitivity time of a single-probe floor detector is determined essentially by the duration of the transients that are caused by overloading its amplifier. In the existing systems of amplifiers, the reduction in the insensitivity time is attained by using small-capacity coupling condensers. This, however, leads to a narrowing in the passband of the amplifier on the low frequency side, which is not permissible in the defectoscopy of many parts, such as large castings. The reduction in the insensitivity time can also be attained by a suitable choice of anode and grid impedances in resistance-coupled stages, using coupling capacitors of large capacitance,

Card : 1/2

TABIN, J

18 21 3
The Possibilities of Improved Castings by an Ultrasonic
Method. J. Tabin. (Przeglad Odlewnictwa, 1956, 6, Aug.,
230-233). [in Polish]. The author gives a detailed survey
of experiments so far conducted in this field in Russia,
Germany and England and points out the advantages.

Tabin, Jozef

mit
gł

14970* (Polish.) Testing Metals With Ultrasonic Surface Waves. Badanie metali ultradźwiękowymi falami powierzchniowymi. Jozef Tabin and Mieczysław Kurek. *Hutnik*, v. 23, nos. 7-8, July-Aug. 1956, p. 300-304.
Types of ultrasonic waves and methods of using them. Surface waves for defect detection; examples of use.

2

of

Distr: 4E2c
5485

862.765:534.321.9

Tabin J. Ultra-Sonic Emulsification of Flotation Reagents.

"Ultradźwiękowe emulgowanie odczynników flotacyjnych". Hutnik.
No. 7-8, 1957, pp. 347-348, 1 fig.

A description is here given of an ultra-sonic generator of a toothed type, together with its performance. The ultra-sonic generator consists of a casing in which two toothed wheels meshed together rotate. The liquid is taken in through one opening and pressed out by the teeth through two outlets placed near the point where the toothed wheels engage. The outlets are closed alternately by the teeth of the wheels so that when one of the outlets is closed the other is opened. Each outlet is connected with a nozzle. The liquid is forced through the nozzles intermittently at a high frequency; this causes very strong tensile stresses in the nozzles, sufficient to overcome the force of cohesion of

the liquid. The liquid is disrupted and small empty spaces formed in it collapse rapidly, enormous stresses being released in the process. This has on mixtures of two liquids a very strong emulsifying effect lasting for more than 6 months. The generator was used to check W. Peterson's contention that greater dispersions of emulsions used for floating ferruginous sand, iron ore and many other minerals are economically

EW
1/2

2
1

TABIN J.

advantageous. The generator is very effective for emulsifying all floatation reagents insoluble in water. In tests with coking coal, the amount of light fraction oil used up was reduced by 25% and at the same time the amount of ash in coal showed a considerable drop.

EW
2/2

PM

2
1

TABIN, JOZEF

CLASS I POLR EXPLOITATION

7-13/1991

Symposium on Electroacoustic Transducers. Krynica, 1958

Proceedings of the Symposium on Electroacoustic Transducers [held in] Krynica, 17-26 September, 1958. Warsaw: Państw. Wydawnictwo Naukowe, 1961. 442 p. Errata slip inserted. 630 copies printed.

Sponsoring Agency: Polish Academy of Sciences. Institute of Basic Technical Problems.

Ed. in Chief: Janusz Karprowski, Doctor of Sciences; Editing Committee: Ignacy Malocki, Professor, Doctor of Sciences, Wincenty Pajewski, Doctor; and Jerzy Wehr, Master of Sciences; Secretary: Juliusz Mierzejewski.

PURPOSE: This book is intended for physicists and acoustical engineers.

COVERAGE: The book is a collection of detailed research papers constituting the proceedings of a conference held in Krynica from 17 to 26 September 1958 under the auspices of the Institute of Technical Problems, Polish Academy of Sciences.

Card 1/8

55

PC1/1981

Symposium on Electroacoustic Transducers

The following basic problems are treated: 1) theoretical research on energy transformation processes; 2) experimental development of new types of transducers; 3) electroacoustic measurements; 4) technology of piezoelectric and pyroelectric materials; 5) construction of transducers for technical needs; and 6) design of acoustic transducer systems. No personalities are mentioned. References (if any) follow the individual articles.

TABLE OF CONTENTS:

Preface

Problems of Research Work on Electroacoustic Transducers. Ignacy Malecki,
President of the Conference

Ch. 1. General Problems and Theory of Electroacoustic Transducers
1. Classification of electromechanical transformation methods in the
light of the tasks faced in [sic] the design and construction
of electroacoustic equipment. V. S. Grigor'iyev

Card 2/8

Symposium on Electroacoustic Transducers

1961

2. Symbols and models for mechanical systems. L. Cremer 23
3. Dual forms of four-pole equations and four-pole equivalent circuits of electro-mechanical transducers. Janusz Knapowski 33
4. Equivalent circuits for material-active electromechanical (piezoelectric, electrostrictive, magnetostrictive) transducers in non-quasi-stationary vibrations. F. A. Fischer 49
5. Transients and the equivalent circuit of the magnetostrictive transducer. Leszek Filipczynski 61
6. Electrical equivalent circuit of the piezoelectric transducer. Leszek Filipczynski 75
7. Four-pole equivalent circuits of piezoelectric bending vibrators. A. Lenk 85
8. Analysis of the equivalent circuit of the magnetostrictive transducer. Roman Suwalaki 93
9. A method of calculating transients in nonlinear transducers. Jozef Tabin 101
10. Electrodynamic transducer utilizing displacement currents in dielectrics with high dielectric permeability. V. S. Grigor'yev, L. N. Nikitina, and J. [sic] A. Ukhanov 105

Card 3/8

S/137/62/000/012/019/085
A006/A101

AUTHOR: Tabin, J.

TITLE: Permalloy with 50% nickel to be used as a magnetostriction material

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 14, abstract
12188 ("Prace Inst. hutn.", 1961, v. 13, no. 5, 249 - 257, Polish;
summaries in Russian and English)

TEXT: The author compared magnetostriction cores manufactured of pure Ni and 50%-permalloy (44.48% Ni, 50.62% Fe, 0.11% C, 0.78% Mn, 0.003% S, 0.0011% P, Mo traces). It is shown that permalloy magnetostriction cores are in the majority of cases of higher quality than nickel cores, having higher efficiency and sensitivity and making it possible to obtain a higher ultrasonic intensity in a number of cases. The author attempted also to establish definite criteria to evaluate the suitability and quality of the magnetostriction material. Possible fields of using magnetostriction cores, manufactured of 50% permalloy, are discussed.

[Abstracter's note: Complete translation]

G. Rymashevskiy

Card 1/1

S/275/63/000/002/026/032
D405/D301

AUTHORS: Tabin, J., Kurek, M. and Glowalla, J.

TITLE: Ultrasonic device for fast control of thick-sheet iron

PERIODICAL: Referativnyy zhurnal, Elektronika i ee primeneniye, no. 2, 1963, 30, abstract 2V184 P (Pol'sk pat., kl. 42 k, 47, no. 44683, 20.07.61 (Polish patent))

TEXT: The patented device permits fast control by the contact method, of iron sheets of a non-worked surface. It consists of a box-like body which moves on rollers; the body contains 2 groups of transducers which operate under generation and reception conditions respectively, and which are separated from each other by a sound-insulating partition (textolite, cork) reaching to the very bottom of the body. The contact liquid is driven from above, via a flexible hose inside the body, into a reservoir situated on the transducers. The excess contact liquid together with the gas bubbles rising from its surface, is removed via a slot in the upper

Card 1/2

Ultrasonic device ...

S/275/63/000/002/026/032
D405/D301

part of the side-wall of the body. From the reservoir the main liquid flow is driven via a pair of flat nozzles into the lower pressure chamber, situated directly above the sheet under investigation. The nozzles are placed on both sides of the transducers, towards the roller mounted on bearings behind and in front of the body. The presence of the pressure chamber ensures the automatic wetting of the sheet and reduces the dead zone. The body is equipped with a long handle, used by the operator for moving the former during checking.

[Abstracter's note: Complete translation]

Card 2/2

TABIN, Jozef, mgr inz.

Nondestructive testing of railroad rails in metallurgy.
Wiad hut 19 no.1:20-23 Ja '63.

LABIN, STANISLAW

"Uprawiajmy zywokost na pasze. (Wyd.1.) Warszawa, Panstwowe Wydawn. Rolnicze
i Lesne, 1955. 42 p. (Let us raise comfrey for fodder. 1st ed.)."

EA

Not in DLC

SO: Monthly Index of East European Accessions (MIEA) LC. Vol. 7, no. 4,
April 1958

TABIN, Stanislaw

The Jerusalem artichoke (*Helianthus tuberosus* L.) crops and nutrient components and the time of their harvesting. Rocz nauk roln rosl 82
1977-1998 '81.

WABIN, Stanislaw

Correlation between investigated morphological features and yield of the Wigor variety of fodder maize and the distance between rows, number of plants in one hole, and seeding dates. Roczn. nauk roln. rosl 87 no.4:749-785 '63.

1. Katedra Szczegolowej Uprawy Roslin, Wyzsza Szkola Rolnicza, Lublin.

TABIN, V.I.

Spring mechanism of the forearm in some mammals. Zool. zhur.
44 no.4:593-597 '65. (MIRA 18:6)

1. Institut zoologii AN UkrSSR, Kiyev.

LABIN, V.I.

Device for measuring the curvature of joint surfaces. Arkh.
anat., gist. 1 embr. 49 no.8:109-110 Ag '65. (MIRA 18:9)

1. Otdel evolyutsionnoy morfologii (zav.- akademik AN UkrSSR
V.G. Kas'yanenko) Instituta zoologii AN UkrSSR, Kiyev.

USSR/Pharmacology, Toxicology. Chemotherapeutical Preparations

V-7

Abs Jour : Ref Zhur - Biol., No 5, 1958, No 23463

Author : Tubinovich G.I.

Inst : Net G iven

Title : Treatment of Tuberculosis of the Peripheral Lymphatic Ganglia
with Larusan.

Orig Pub : Klinika i terapija tuberculoza i organisatsia borby s nim. 1957,
158-162

Abstract : Larusan was orally administered to children in a daily 0.3-0.9 dose (depending on the age). The preparation accelerated the healing processes, the scarring and retroactive development in the affected lymphatic ganglia and centers of scrophuloderma. improved the patient's general conditions, and conditioned the normalization of the blood. There were no side effects and no toxicity. A very good therapeutic effect was noted in the treatment of tuberculosis of peripheral lymphatic nodes, especially in the open form.

Card : 1/1

KULEV, L.P. [deceased]; STEPNOVA G.M.; KOVALENOK, A.V.;
TABINSKAYA, P.F.

Insecticidal activity of substituted amides of 9-fluorenone-4-
carboxylic acid and its derivatives. Izv. Sib. otd. AN SSSR
no.12:137-140 '62. (MIRA 17:8)

1. Tomskiy politekhnicheskii institut.

XUL'EV, L.P.; STEPNOVA, G.M.; TABINSKAYA, P.P.

Substituted amides of 4-nitro-2,2'-diphenic acid. Izv. TPI 126:51-52
'64. (MIRA 18:7)

STEPNOVA, G.M.; TABINSKAYA, P.F.; KOVALENOK, A.V.

Acyl derivatives of 9-aminofluorene-4-carboxylic acid. Zhur. org.
khim. 1 no.6:1087-1089 Je '65. (MIRA 18:7)

1. Tomskiy politekhnicheskii institut imeni Kirova.

IZYUMOV, A.A.; ROMANOV, G.N.; TABINSKIY, K.P.

Thermomechanical working of the 60S2 spring steel. Vopr. mekh. real.
Izver. tela no.3:188-191 '64. (MIRA 10:11)

TABINSKIY, F.P.

Automatic recording unit for investigating friction characteristics of materials. Nauch.zap.IMA AN USSR.Ser.mashinoved. 10:165-174 '64.
(MIRA 17:10)

Investigating the regularity of the wear of a cast-iron friction pair. Ibid.:1875-1881

Effect of the structure and hardness on the wear of modified copper cast iron. Ibid.:1882-1890

L 1523-65 EPA(s)-2/EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EPA(bb)-2/
EWP(b) Pf-4/Pt-10 ASD(f)-2/AFMDC/ASD(m)-3 MJW/JD/WB/EM

ACCESSION NR: AP4047507

S/0129/64/000/010/0028/0031

AUTHOR: Karpenko, G. V.; Meyerson, I. L.; Babey, Yu. I.; Tabinskiy, K. P.; Kuslitskiy, A. B.

TITLE: Corrosion and corrosion fatigue resistance of Kh17N2 and SN3 steels

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 10, 1964, 28-31, and bottom half of insert facing p. 40

TOPIC TAGS: stainless steel, steel corrosion, steel corrosion fatigue, precipitation hardenable steel, Kh17N2 steel, SN2 steel, steel corrosion resistance, steel corrosion fatigue resistance, anticorrosion coating, 302 varnish

ABSTRACT: The corrosion and corrosion fatigue of Kh17N2 (0.12% C, 17.23% Cr, 1.84% Ni) and SN3 (0.09% C, 16.93% Cr, 4.71% Ni, 3.31% Mo) stainless steel have been investigated. Steels were heat-treated to a hardness of 38--40 and 40--42 HRC, respectively. The test results showed that the SN3 steel has a higher corrosion resistance than the Kh17N2 steel, e.g., by 2.5 times in 53% sulfuric acid. The SN3 fatigue strength in air

Card 1/2

L 19623-65

ACCESSION NR: AP4047507

3
is 10% higher than that of the Kh17N2 steel. In a 3% sodium-chloride solution, the fatigue strength of both steels decreases by about the same factor, compared with that in air (see Fig. 1 of the Enclosure) and at $N = 2 \cdot 10^7$ cycles, is about 2 times lower than that in air. This confirms the absence of a direct relation between the corrosion resistance and the corrosion fatigue resistance of the metal. The SN3 steel is preferable to Kh17N2 steel for compressor blades working in aggressive media. Coating with 302 varnish (composition, unidentified) increases by 1.5 times the corrosion fatigue strength of Kh17N2 and SN3 steels. Orig. art. has: 2 figures.

ASSOCIATION: Fiziko-mekhanicheskii institut AN UkrSSR(Physiomechanical Institute AN UkrSSR)

SUBMITTED: 00

ENCL: 01

SUB CODE: MM

NO REF SOV: 009

OTHER: 000

Card 2/3

L 19623-65

ACCESSION NR: AF4047507

ENCLOSURE: 01

σ dan/mm²

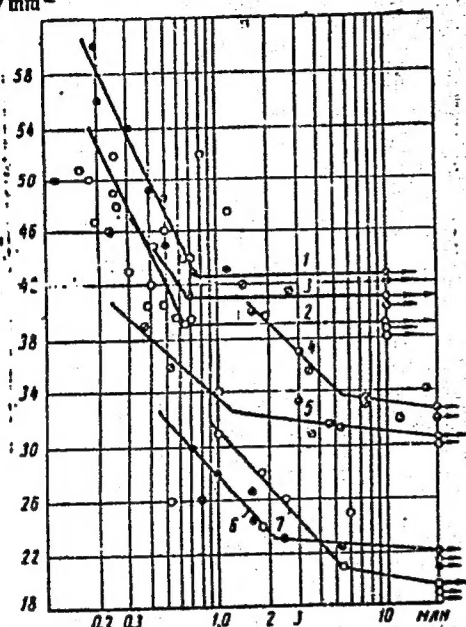


Fig. 1. Fatigue curves of uncoated (1,6) and 302 varnish-coated (4) SN3 steel, and uncoated (2,7) and 302 varnish-coated (3) Kh17N2 steel in air (1,2,3) and in a 3% solution of sodium chloride (4,5,6,7).

Cord 3/3

L 62531-65 EPF(c)/EWP(z)/EWA(c)/EWT(m)/EWP(t)/T/EWA(d)/EWP(w)/EWP(t) MJW/JD/WB

ACCESSION NR: AP5012654

UR/0369/65/001/002/0209/0213

AUTHOR: Boltarovich, A. V.; Pokhmurskiy, V. I.; Tabinskiy, K. P.; Shportko, V. P.

TITLE: The effect of heat treatment on the structure, mechanical properties and corrosion properties of VTZ-1 alloy

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 2, 1965, 209-213

TOPIC TAGS: metal mechanical property, corrosion resistance, titanium alloy, heat treatment

ABSTRACT: The effects of heat treatment on the structure, mechanical properties, and corrosion properties of VTZ-1 alloy are studied. Alloy composition: Cu--0.06, Si--0.22, Cr--1.7, Fe--0.32, Al--5.03, N₂--0.032, H₂--0.015, Mo--2.64, Ti--remainder. Tests show that the duration of holding during annealing greatly affects the mechanical properties and corrosion properties of VTZ-1 alloy. At the recommended aging temperature (500°C) a maximum increase in mechanical properties occurs in a comparatively short holding time (nearly 2 hours). The alloy acquires maximum corrosion resistance to sulfuric acid with a second heating for 2-5 hours. The reannealing temperature also greatly affects the mechanical and corrosion properties of the al-

Card 1/2